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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Maria-Grazia ASCENZI

Serial No.: 09/981,684

Confirmation No.: 6620

Filed: October 17, 2001

For: SYSTEM AND METHOD FOR MODELING BONE STRUCTURE

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Hon. Commissioner of  
Patents and Trademarks  
Washington, DC 20231

Sir:

In order to comply with 37 CFR 1.97 and 1.98, attached hereto is a  
copy of Form PTO-1449 and copies of the documents listed thereon.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing Form PTO-1449 next to the document. Such initialing is requested even if the Examiner does not consider a cited document to be sufficiently pertinent to use in a rejection, or otherwise does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application.

The present Supplemental Information Disclosure Statement is being submitted in compliance with 37 CFR 1.56, but the citation of such document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner, in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 CFR 1.104(a) and 1.106(b) and, in the course of each search, will review for relevance every document cited on the attached form even if not initialed.


Since this submission is being filed before a first office action on the merits, it is believed that no fee is due. However, if the Commissioner determines

that a fee is due, the Commissioner is hereby authorized to charge the above deposit account for any deficiency.

Early and favorable consideration is earnestly solicited.

Respectfully submitted,

Dated: March 29, 2002

A handwritten signature in black ink, appearing to read 'Anna Löqvist', written over a horizontal line.

Anna Löqvist, Ph.D.  
Limited Recognition Under  
37 C.F.R. §10.9(b) (see enclosure)  
Representative for Applicant(s)

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805 Third Avenue  
New York, NY 10022  
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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT &amp; TRADEMARK OFFICE

SHEET 1 OF 2  
(REV. 7-80)**LIST OF REFERENCES CITED BY APPLICANT**

(Use Several Sheets if Necessary)

DOCKET NO.: 4079/1H629US2 SERIAL NO: 09/981,684  
APPLICANT: ASCENZI, Maria-Grazia FILING DATE: October 17, 2001  
CONFIRMATION NO: 6620

**U.S. PATENT DOCUMENTS**

<u>*EXAMINER INITIALS</u>	<u>DOCUMENT NUMBER</u>	<u>DATE</u>	<u>NAME</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>FILING DATE</u>
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**FOREIGN PATENT DOCUMENTS**

<u>*EXAMINER INITIALS</u>	<u>DOCUMENT NUMBER</u>	<u>DATE</u>	<u>COUNTRY</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>TRANSLATION YES</u>
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**OTHER REFERENCES****(INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)**

\*EXAMINER  
INITIALS

1. An, Y., et al., (2000) Basic Concepts of Mechanical Property Measurement and Bone Biomechanics.

Mechanical Testing of bone and the Bone-Implant Interface, Chapter 2, pp. 23-40

2. Ascenzi, A., and Boyde, A., (1993) Micromechanical aspects of normal and deformed cortical bone. In: Micromovement in Orthopaedics. A.R. Turner-Smith ed., Chapter 21, pp. 185-198. Oxford Medical Engineering Series 10, Medical Publications. Clarendon Press, Oxford.

3. Ascenzi, A., et al., (1987b) Distribution of Lamellae in Human Femoral Shafts Deformed by Bending with Interferences on Mechanical Properties. Bone, 8:319-325

4. Ascenzi, A., and Benvenuti, A., (1980) Evidence of a state of initial stress in osteonic lamellae. Acta Orthop. Belg., 46:580-583

5. Ascenzi, A., et al., (1965) The tensile properties of single osteons studied using a microwave extensimeter. In: Studies on the Anatomy and Function of Bone and Joints. F.G. Evans ed., pp. 121-141, Springer-Verlag, Berlin.

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SHEET 2 OF 2  
(REV. 7-80)

**LIST OF REFERENCES CITED BY APPLICANT**

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DOCKET NO.: 4079/1H629US2 SERIAL NO: 09/981,684  
APPLICANT: ASCENZI, Maria-Grazia FILING DATE: October 17, 2001  
CONFIRMATION NO: 6620

\*EXAMINER  
INITIALS

6. Carando, S., et al., (1991) Macroscopic shape of, and lamellar distribution within, the upper limb shafts, allowing interferences about mechanical properties. Bone, 12:265-269

7. Carando, S., (1989) Orientation of collagen in human tibial and fibular shaft and possible correlation with mechanical properties. Bone, 10:139-142

8. Currey, J.D. (1969) The relationship between the stiffness and the mineral content of bone. J. Biomechanics, 2:477-480

9. Marotti, G., et al., (1994) Structure and function of lamellar bone. Clinical Rheumatology, 13(1):63-68

10. McCutchen, C.W., (1975) Do mineral crystals stiffen bone by straitjacketing its collagen? J. Theor. Biol., 51:51-58

EXAMINER: \_\_\_\_\_

DATE CONSIDERED: \_\_\_\_\_

\*EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE  
UNITED STATES PATENT AND TRADEMARK OFFICE**

**LIMITED RECOGNITION UNDER 37 CFR § 10.9(b)**

Anna Lovqvist is hereby given limited recognition under 37 CFR § 10.9(b) as an employee of the Darby & Darby, PC law firm to prepare and prosecute patent applications wherein the patent applicant is the client of the Darby & Darby, PC law firm, and the attorney or agent of record in the applications is a registered practitioner who is a member of the Darby & Darby, PC law firm. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Anna Lovqvist ceases to lawfully reside in the United States, (ii) Anna Lovqvist's employment with the Darby & Darby, PC law firm ceases or is terminated, or (iii) Anna Lovqvist ceases to remain or reside in the United States on an H-1 visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the United States Patent and Trademark Office.

**Expires: July 12, 2002**

Harry I. Moatz

Director of Enrollment and Discipline

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